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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,015	12/07/2004	Takahiro Miyagi	275868US6PCT	8751
22850	7590	02/07/2006	EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			FANG, JERRY C	
			ART UNIT	PAPER NUMBER
			2873	

DATE MAILED: 02/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/517,015

Applicant(s)

MIYAGI ET AL.

Examiner

Jerry Fang

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– The MAILING DATE of this communication appears on the cover sheet with the correspondence address –
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 1/4/2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 3,9,15 and 19-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 3,9,15 and 19-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07 December 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 12/7/2004.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 19-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Masatoshi (JP 2000-11406) in view of Kariya et al. (US 2004/0026403).

1. Regarding claims 19-21, Masatoshi discloses an objective lens (Fig.12, 55); a lens-supporting member (Fig.12, 51) for holding said objective lens; a plurality of linear elastic supporting members (Fig.12, 53) each for supporting said lens-supporting member on an end side thereof; a fixing member (Fig.12, 52) for supporting the other end side of each of said elastic supporting members; and a drive means (Para. 0005 and Fig.12, 54) for driving said lens-supporting member in a tracking direction and a focus direction, wherein each of said elastic supporting members is fixed on said lens-supporting member and said fixing member by bonding means (Fig.12, 56), and wherein an uneven face having a surface roughness (Para. 0038 and Fig.12, 51a) allowing said bonding means to invade therein and harden is formed on at least the surface of said one end side and the surface of the other end side of each of said elastic supporting members. Masatoshi fails to disclose the rough face is composed of plating layer. Kariya

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discloses a rough face composed of plating layer (Para. 0162). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use plating layer to compose a rough face as taught by Kariya, with the uneven face of Masatoshi, since as shown by Kariya, plating layer is commonly used in order to compose a rough face.

2. Regarding claims 22-24, Masatoshi discloses an objective lens (Fig.12, 55); a lens-supporting member (Fig.12, 51) for holding said objective lens; a plurality of linear elastic supporting members (Fig.12, 53) each for supporting said lens-supporting member on an end side thereof; a fixing member (Fig.12, 52) for supporting the other end side of each of said elastic supporting members; and a drive means (Para. 0005 and Fig.12, 54) for driving said lens-supporting member in a tracking direction and a focus direction, wherein each of said elastic supporting members is fixed on said lens-supporting member and said fixing member by bonding means (Fig.12, 56), and wherein an uneven face having a surface roughness (Para. 0038 and Fig.12, 51a) allowing said bonding means to invade therein and harden is formed on at least the surface of said one end side and the surface of the other end side of each of said elastic supporting members. Masatoshi fails to disclose the method of making the rough face. Kariya discloses a method of making a rough face by etching (Para. 0162). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use etching to create an uneven face as taught by Kariya, with the

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elastic supporting member of Masatoshi, since as shown by Kariya, etching is commonly used in order to create an uneven face.

Claims 3, 9, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Masatoshi (JP 2000-11406) and Kariya et al. (US 2004/0026403) as applied to claims 19-21 above, and further in view of Takahashi (JP 59064762).

3. Claims 3, 9, and 15, modified Masatoshi, as detailed in claim rejections 19-21 above, fails to disclose the uneven face is composed of plating layer on which a number of pin holes are formed. Takahashi discloses an uneven face is composed of plating layer on which a number of pin holes are formed (Abstract). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the create an uneven face with plating layer on which a number of pin holes are form as taught by Takahashi, with the uneven face of Masatoshi, since as shown by Takahashi, using a plating layer on which a number of pin holes are formed is commonly used in order to create an uneven face.

Conclusion

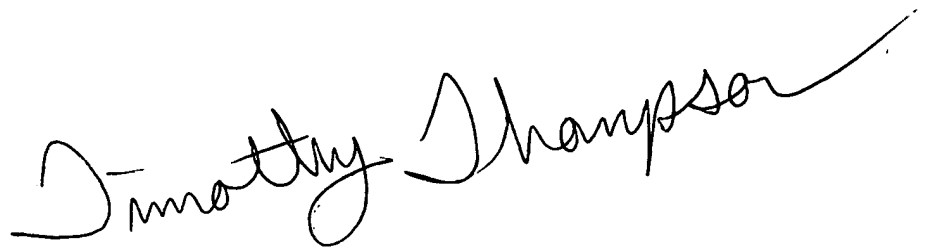
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerry Fang whose telephone number is 5712726013. The examiner can normally be reached on 8-6.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Mack can be reached on 5712722333. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

J.F.

A handwritten signature in black ink that reads "Timothy Thompson". The signature is written in a cursive, flowing style.

TIMOTHY THOMPSON
PRIMARY EXAMINER